





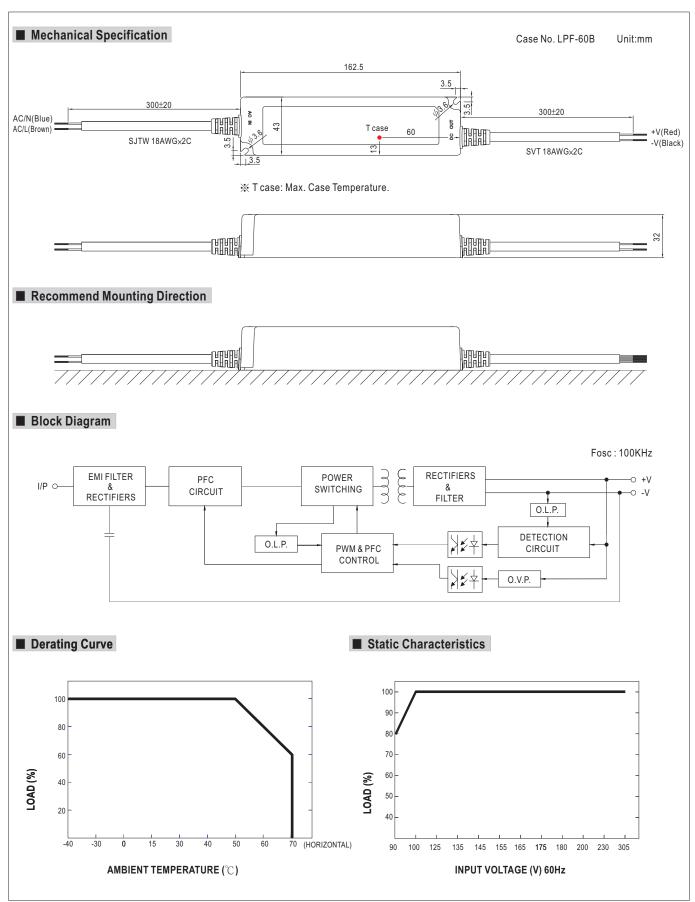
■ Features :

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 89%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Fully encapsulated with IP67 level (Note.6)
- Class Ⅱ power unit, no FG
- Class 2 power unit
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 5 years warranty



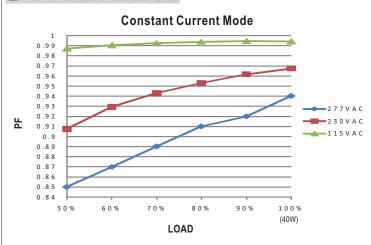
	LPF-40-12	LPF-40-15	LPF-40-20	LPF-40-24	LPF-40-30	LPF-40-36	LPF-40-42	LPF-40-48	LPF-40-54	
DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
CONSTANT CURRENT REGION Note.4	7.2 ~12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54\	
RATED CURRENT	3.34A	2.67A	2A	1.67A	1.34A	1.12A	0.96A	0.84A	0.76A	
RATED POWER	40.08W	40.08W	40W	40.08W	40.2W	40.32W	40.32W	40.32W	41.04W	
RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
VOLTAGE TOLERANCE Note.3	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
SETUP, RISE TIME Note.7	1000ms, 80ms / 115VAC at full load									
HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load									
VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC									
FREQUENCY RANGE	47 ~ 63Hz									
POWER FACTOR (Typ.)	PF>0.97/115	VAC, PF>0.95	/230VAC, PF>0).92/277VAC a	t full load (Plea	se refer to "Po	wer Factor Cha	aracteristic" cur	ve)	
EFFICIENCY (Typ.)	84%	85%	86%	87%	88%	88%	88.5%	90%	90%	
AC CURRENT (Typ.)	0.6A / 115VA	C 0.3A/	230VAC ().25A / 277VAC	;					
INRUSH CURRENT (Typ.)	COLD START 50A(twidth=210 μ s measured at 50% Ipeak) at 230VAC									
LEAKAGE CURRENT	<0.75mA/240VAC									
OVER CURRENT Note.4	95 ~ 108%									
	Protection type : Constant current limiting, recovers automatically after fault condition is removed									
SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.									
OVER VOLTAGE	15 ~ 17V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59 ~ 66V	
	Protection type : Shut down and latch off o/p voltage, re-power on to recover									
OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover									
WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")									
WORKING HUMIDITY	20 ~ 95% RH non-condensing									
STORAGE TEMP., HUMIDITY	-40 ~ +80 ℃, 10 ~ 95% RH									
TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
CAFETY CTANDADDO		III 8750, CSA C22, 2 No. 250, 0.08 (except for 48V, 54V). FN61347-1, FN61347-2-13 independent, IP67, I61347-1, I61347-2-1								
SAFETY STANDARDS Note.6	approved; design refer to UL60950-1, TUV EN60950-1									
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC									
ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3									
EMC IMMUNITY	Compliance	to EN61000-4-	2,3,4,5,6,8,11;	EN61547, EN	55024, light inc	lustry level(sur	ge 2KV), criter	ria A		
MTBF	-					, ,	,-			
DIMENSION	162.5*43*32mm (L*W*H)									
PACKING	0.44Kg; 32pcs/15.08Kg/0.93CUFT									
2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING N 5. Derating may be needed ur 6. Suitable for indoor use or ou 7. Length of set up time is me. 8. The power supply is conside	ed at 20MHz of tolerance, line METHODS OF nder low input utdoor use wit asured at colo ered as a con	of bandwidth be regulation and LED MODUL voltages. Pleathout direct suit first start. Turnponent that w	y using a 12" of load regulation. LE". ase check the onlight exposure the control on the contro	wisted pair-wion. static characte b. Please avoid the power sup in combinatio	eristics for more d immerse in the oply may lead on with final eq	with a 0.1uf & e details. The water over to increase of uipment. Since	47uf parallel ca 30 minutes. the set up time EMC perform).	fected by the	
	CONSTANT CURRENT REGION Note.4 RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.7 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVER CURRENT OVER CURRENT OVER CURRENT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.6 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance: includes set up 4. Please refer to "DRIVING Notes of the control of th	CONSTANT CURRENT REGION Note.4 7.2 ~12V RATED CURRENT 3.34A RATED POWER 40.08W RIPPLE & NOISE (max.) Note.2 150mVp-p VOLTAGE TOLERANCE Note.3 ±4.0% LINE REGULATION ±0.5% LOAD REGULATION ±0.5% LOAD REGULATION ±0.6% SETUP, RISE TIME Note.5 90 ~ 305VAC FREQUENCY RANGE Note.5 90 ~ 305VAC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) 9F>0.97/115' EFFICIENCY (Typ.) 0.6A / 115VA INRUSH CURRENT (Typ.) 0.6A / 115VA INRUSH CURRENT (Typ.) 0.6A / 115VA UNGER CURRENT Note.4 95 ~ 108% Protection ty SHORT CIRCUIT Hiccup mode 15 ~ 17V Protection ty SHORT CIRCUIT Shut down o WORKING TEMP. 40 ~ +70°C WORKING HUMIDITY 20 ~ 95% RH STORAGE TEMP., HUMIDITY 40 ~ +80°C, TEMP. COEFFICIENT ±0.03%/°C (i) VIBRATION 10 ~ 500Hz, i WITHSTAND VOLTAGE I/P-O/P:100 EMC EMISSION Compliance of the compliance of	CONSTANT CURRENT REGION Note.4 7.2 ~ 12V 9 ~ 15V RATED CURRENT 3.34A 2.67A RATED POWER 40.08W 40.08W 40.08W RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p VOLTAGE TOLERANCE Note.3 ±4.0% ±4.0% ±4.0% ±1.5% ±0.	CONSTANT CURRENT REGION Note.4 7.2 ~ 12V 9 ~ 15V 12 ~ 20V RATED CURRENT 3.34A 2.67A 2A 2A RATED POWER 40.08W 40.08W 40.08W 40W RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p 150mVp-p 150mVp-p VOLTAGE TOLERANCE Note.3 ±4.0% ±4	CONSTANT CURRENT REGION Note	CONSTANT CURRENT REGION Note A 7.2 - 12V 9 - 15V 12 - 20V 14.4 - 24V 18 - 30V	CONSTANT CURRENT REGION Note A 7.2 −12V	CONSTANT CURRENT REGION Note.4 7.7.2-12V 9-15V 12-20V 14.4-24V 18-30V 21.6-36V 25.2-42V RATED CURRENT 3.34A 2.67A 2A 1.67A 1.34A 1.12A 0.96A RATED POWER 40.08W 40.08W 40.08W 40.08W 40.2W 40.32W 81PPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p 150mVp-p 150mVp-p 250mVp-p 250mVp-p 250mVp-p 250mVp-p 100.TAGE TOLERANCE Note.3 ±4.0% ±0.5% ±0	CONSTANT CURRENT REGION Most. 4 7.2—12V 9-15V 12-20V 14.4 - 24V 18-30V 21.6 - 36V 25.2 - 42V 28.8 - 48V RATED CURRENT 3,34A 2.67A 2A 1.57A 1.34A 1.12A 0.98A 0.84A RATED POWER 4.0,98W 4.0,98W 40,98W 40,08W 40.2W 40.2W 40.32W 40.32W 40.32W 40.32W 7.20B RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p 150mVp-p 150mVp-p 200mVp-p 250mVp-p 2	





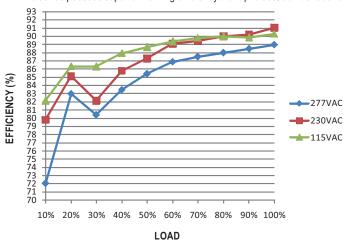


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

LPF-40 series possess superior working efficiency that up to 90% can be reached in field applications.

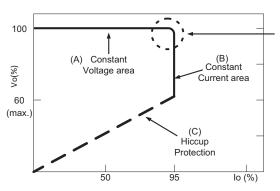


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.